



**north dakota**  
**GEOGRAPHIC INFORMATION SYSTEMS**

# Nebraska Public Service Commission

***Providing Centralized Internet-based Data  
Management, Quality Control, and Data Distribution  
for E911 Systems Statewide***

**North Dakota GIS Users Group 2007 Conference**  
**September 11-13, 2007**

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*Director of Business Development – GIS Workshop, Inc.*

***Claire Brown***

*Senior GIS Technician & Trainer – GIS Workshop, Inc.*



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# Nebraska Public Service Commission (NPSC)

Established in 1885 as the Railway Commission, renamed in 1972 as the Public Service Commission

– Headquartered in Lincoln, NE

- **PSC Mission:**

“The mission of the Nebraska Public Service Commission is to assure Nebraskans receive high quality, safe and reliable public services at fair and affordable rates.”



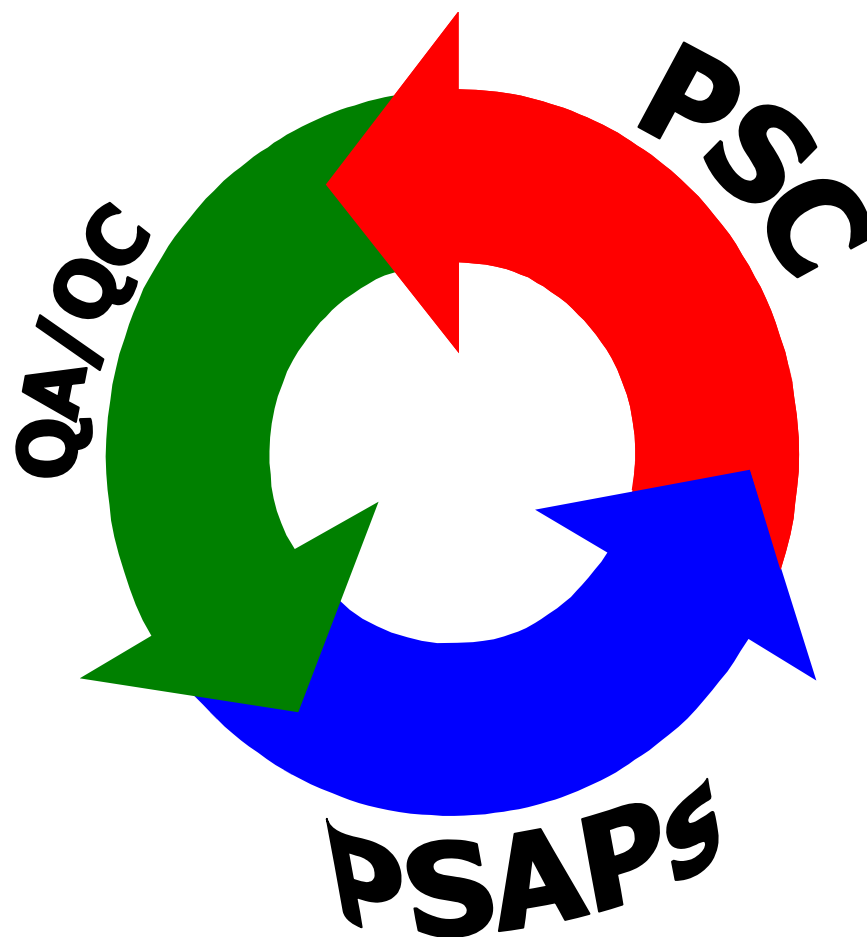


## **What was the problem?**

- New 911 dispatch systems require accurate GIS data about streets throughout the dispatch area
- The Nebraska Public Service Commission is pushing forward with collection/creation of these data to enable new dispatch technologies to handle wireless 911 calls
- Each PSAP will utilize a minimum of 10 GIS/database layers...potentially 1000's of layers for the entire state
- These data are dynamic, requiring continual changes and edits to reflect changes in the PSAP coverage area (e.g., new street construction, fire district boundary adjustments, etc.)
- PSC must collect, manage, and distribute these data statewide

## What is it?

- A centralized storage site for the state's E911 GIS data for all Public Service Answering Points (PSAPs)
- Web-based (PSAPs only need a computer and Internet connection)
- Allows PSAPs to submit and validate their E911 GIS data
- Allows authorized users to view and download State GIS data
- Allows Wireless E911 Coordinator and Director to track and manage the statewide GIS data effort





# NEBRASKA PUBLIC SERVICE COMMISSION

GIS Data Repository

State of Nebraska

## Login

Login:

Password:

Log In

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- ▶ View the system activity

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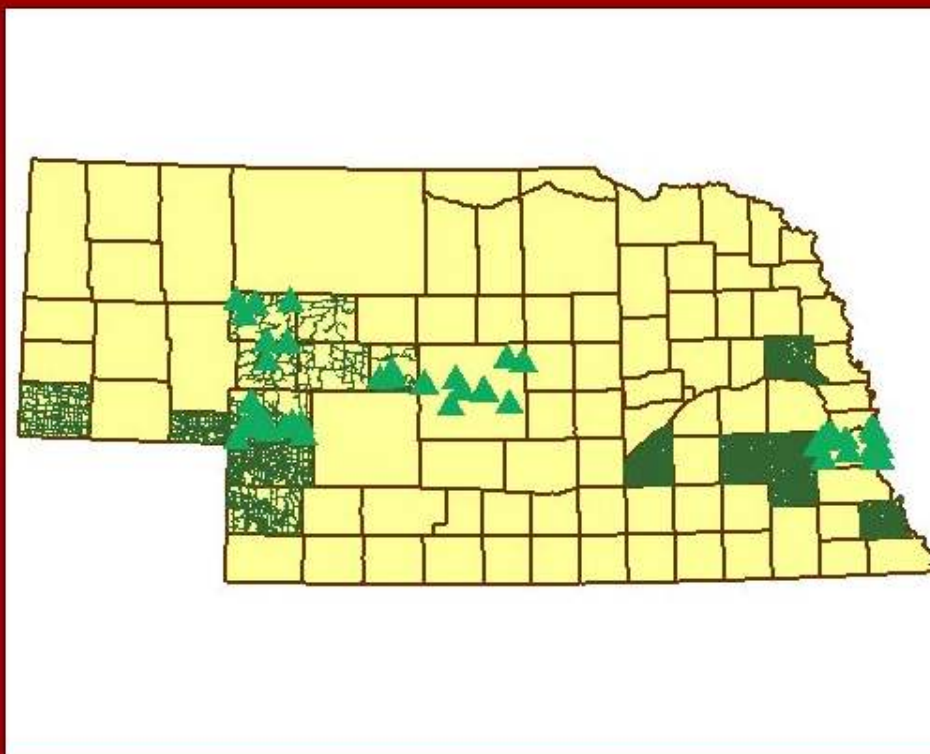
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## Map Viewer



### Map Layers

- ☒ ☐  Cell Towers
- ☒ ☐  Streets
- ☒ ☐  Counties

[Update](#)

Select a tool below to navigate the map:



**Pan:** Click and drag the map to move



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## Map Viewer



### Map Layers

- ☒ ☒  Cell Towers
- ☒ ☒  Streets
- ☒ ☐  Counties

[Update](#)

Please select the radio button next to the layer where you want to identify features

The radio buttons are outlined above in red

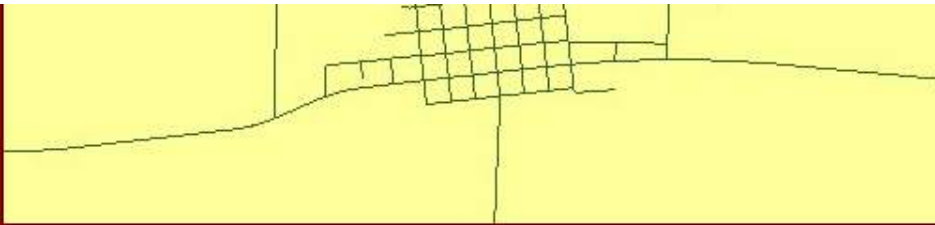
Select a tool below to navigate the map:



**Identify:** Click on a feature to see its attributes

1 Features Selected:





above in red

Select a tool below to navigate the map:



**Identify:** Click on a feature to see its attributes

**1 Features Selected:**

<b>STPRE:</b>	E
<b>STNAME:</b>	T
<b>STTYPE:</b>	RD
<b>STSUF:</b>	
<b>FROMLEFT:</b>	950
<b>TOLEFT:</b>	1108
<b>FROMRIGHT:</b>	951
<b>TORIGHT:</b>	1109
<b>L_ESN:</b>	208
<b>R_ESN:</b>	208
<b>LCITY:</b>	PAXTON
<b>RCITY:</b>	PAXTON
<b>NONADDR:</b>	
<b>NEEDRANGE:</b>	
<b>FIPS:</b>	31101
<b>area:</b>	0
<b>len:</b>	0.0236176283988262

---

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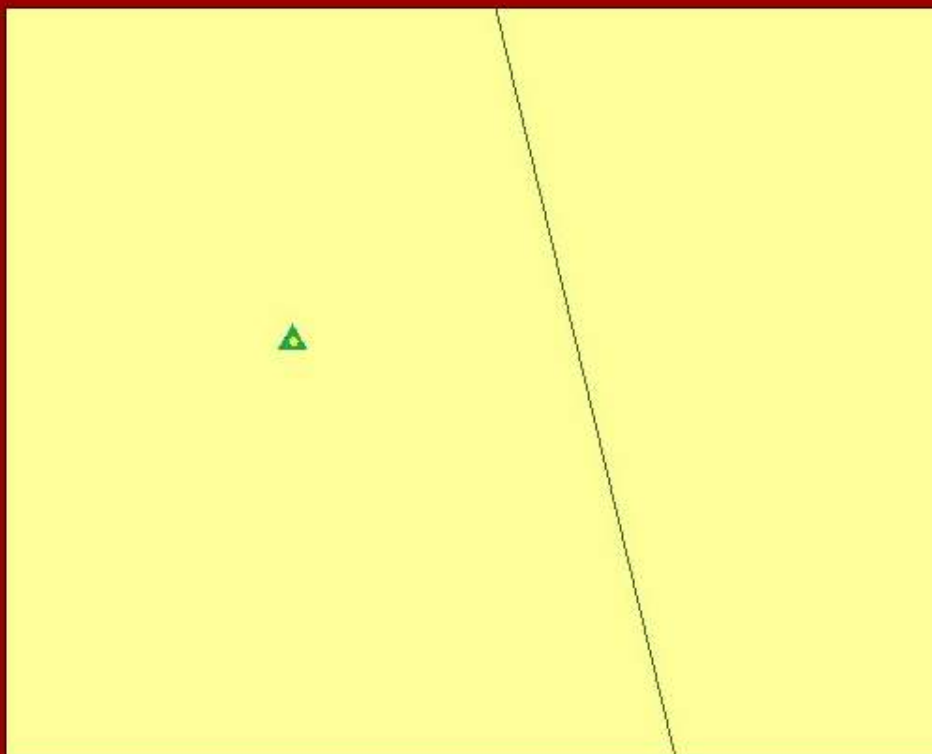
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## Map Viewer



### Map Layers

- ☒ ☒  Cell Towers
- ☒ ☐  Streets
- ☒ ☐  Counties

[Update](#)

Please select the radio button next to the layer where you want to identify features

The radio buttons are outlined above in red

Select a tool below to navigate the map:



**Identify:** Click on a feature to see its attributes

3 Features Selected:

Select a tool below to navigate the map:



**Identify:** Click on a feature to see its attributes

**3 Features Selected:**

**CARR\_NAME:** VIAERO  
**SITE\_NAME:** Paxton  
**SITE\_ADDR:** 1026 N County Road East T  
**LAT:** 41.13833611  
**LONG\_:** -101.36177222  
**SECTOR:** 1  
**RADIUS:** 0  
**AZIMUTH:** 30  
**BEAM\_WIDTH:** 105  
**FIPS:** 31101  
**area:** 0  
**len:** 0

**CARR\_NAME:** VIAERO  
**SITE\_NAME:** Paxton  
**SITE\_ADDR:** 1026 N County Road East T  
**LAT:** 41.13833611  
**LONG\_:** -101.36177222  
**SECTOR:** 2  
**RADIUS:** 0  
**AZIMUTH:** 150  
**BEAM\_WIDTH:** 105  
**FIPS:** 31101  
**area:** 0  
**len:** 0

**CARR\_NAME:** VIAERO  
**SITE\_NAME:** Paxton  
**SITE\_ADDR:** 1026 N County Road East T  
**LAT:** 41.13833611  
**LONG\_:** -101.36177222  
**SECTOR:** 3  
**RADIUS:** 0  
**AZIMUTH:** 270  
**BEAM\_WIDTH:** 105  
**FIPS:** 31101  
**area:** 0  
**len:** 0



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## Data Upload - Select Data

To upload your own data layer for a county, simply select the county and the layer you are uploading. Then select the data files for the GIS data on your computer and click "Upload".

What County?

What Layer?

What Data Type? ☒ Shapefile ☐ Geodatabase

Select the shapefile:

SHP File:

SHX File:

DBF File:

*Note: Shapefile must be in the Geographic coordinate system (WGS84)*

---

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Public Service Commission Data Repository - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://psc.gisworkshop.com/PSCRepository/upload2.jsp

bugmenot 800x600 1024x768 BEHEMOTH IMS MAC10 IMSDEV Behemoth Stats External



NEBRASKA PUBLIC SERVICE COMMISSION  
State of Nebraska

Home Departments Commissioners Commission Info Related sites

[:: GIS Data Repository :: Upload](#)

Please select what fields correspond to the PSC data standard fields:

*For your convenience, we've saved the previous fields selected from the last time this layer was uploaded.  
Please look over these field selections to make sure they are correct.*

From Left: FROMLEFT

To Left: TOLEFT

From Right: FROMRIGHT

To Right: TORIGHT

Street Name: ID  
COMMENTS  
DIRECTN  
NAME  
TYPE  
L\_ESN  
R\_ESN  
LCITY  
RCITY  
FROMLEFT  
TOLEFT  
FROMRIGHT  
TORIGHT  
NONADDR  
Post\_Dir  
length  
date\_mod  
mod\_comms

Submit Re

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in Netscape or Internet Explorer 4.0 and above at screen resolution 800x600 and above.

Done





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## Download Data

Please choose how you want to select areas to download:

- ☒ By selecting County names
- ☐ By drawing a Rectangle on a map
- ☐ By drawing a Polygon on a map

Please choose which counties to include in your download:

Howard	▲
Jefferson	
Johnson	
Kearney	
Keith	
Keya Paha	☰
Kimball	
Knox	
Lancaster	
Lincoln	▼

[ [Use County Picker](#) ]

☐ Select All Counties

Please choose which layer(s) to include in your download:

Streets
Cell Towers
Emergency Service Numbers

**Note:** You may not have permission to download everything you've selected.  
All layers and counties you're not permitted to download will be omitted from the download.



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- ☒ By selecting County names
- ☐ By drawing a Rectangle on a map
- ☐ By drawing a Polygon on a map

Please choose which counties to include in your download:

Howard
Jefferson
Johnson
Kearney
<b>Kim</b>
Keya Paha
Kimball
Knox
Lancaster
Lincoln



☐ Select All Counties

*Simply click the map on each county to select it or deselect it.* [Close \[X\]](#)

Please choose which layer(s) to include in your download:

Streets
Cell Towers
Emergency Service Numbers

**Note:** You may not have permission to download everything you've selected.  
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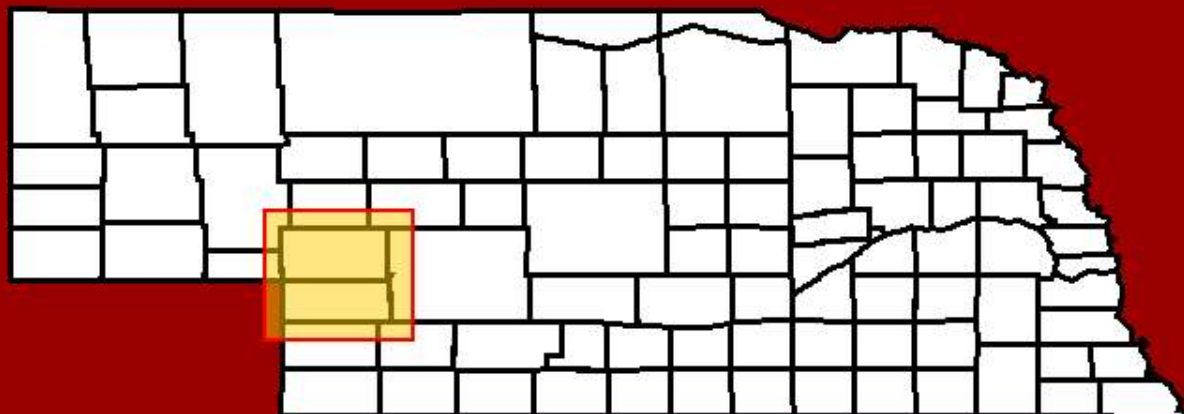
You are logged in as **administrator** [ [Main Menu](#) :: [My Messages](#) :: [Logout](#) ]

## Download Data

Please choose how you want to select areas to download:

- ☐ By selecting County names
- ☒ By drawing a Rectangle on a map
- ☐ By drawing a Polygon on a map

Please click on the map and drag a rectangle around the area you want to download:



Please choose which layer(s) to include in your download:

Streets  
Cell Towers  
Emergency Service Numbers

Submit



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## Download Data

Download Status:

Downloading 1 Layer



Creating zip download file

**Note:** You may close this window or navigate to another page.  
A message will be sent to you when the download has been prepared for you.

---

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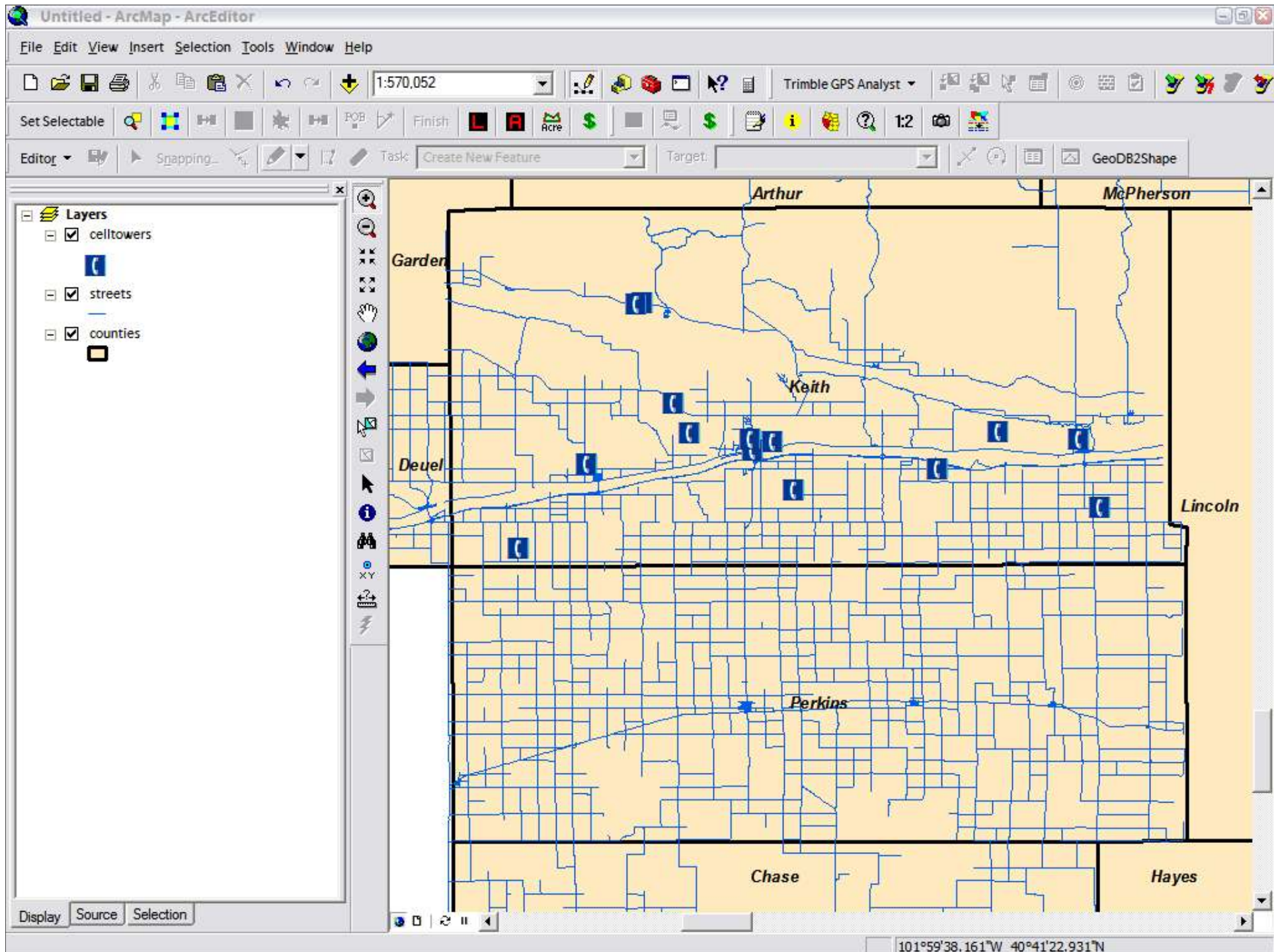
## Messages

Delete Selected

Select: [All](#), [None](#)

	Subject	From	Date		
1.	From: Download System Date: 09/07/2007 06:24 PM Subject: File ready for download			Close [X]	<a href="#">Delete</a>
	<p>The layers you selected for download are ready for retrieval. They will be available for the next 24 hours.</p> <p><a href="#">Click here to download your file</a></p> <p>You selected these layers: Streets</p> <p>You selected data for the following counties: Keith</p>				
<input type="checkbox"/>	2. <a href="#">Data deleted</a>	Delete system	06/20/2007 11:00 AM		<a href="#">Delete</a>
<input type="checkbox"/>	3. <a href="#">File ready for download</a>	Download System	06/20/2007 10:49 AM		<a href="#">Delete</a>
<input type="checkbox"/>	4. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:15 AM		<a href="#">Delete</a>
<input type="checkbox"/>	5. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:10 AM		<a href="#">Delete</a>
<input type="checkbox"/>	6. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:07 AM		<a href="#">Delete</a>
<input type="checkbox"/>	7. <a href="#">Upload complete</a>	Upload System	06/19/2007 01:03 PM		<a href="#">Delete</a>
<input type="checkbox"/>	8. <a href="#">Upload complete</a>	Upload System	06/18/2007 05:15 PM		<a href="#">Delete</a>
<input type="checkbox"/>	9. <a href="#">Upload complete</a>	Upload System	05/04/2007 11:02 AM		<a href="#">Delete</a>
<input type="checkbox"/>	10. <a href="#">Data deleted</a>	Delete system	05/04/2007 10:52 AM		<a href="#">Delete</a>
<input type="checkbox"/>	11. <a href="#">Upload complete</a>	Upload System	05/04/2007 10:42 AM		<a href="#">Delete</a>
<input type="checkbox"/>	12. <a href="#">Upload complete</a>	Upload System	05/01/2007 03:24 PM		<a href="#">Delete</a>
<input type="checkbox"/>	13. <a href="#">File ready for download</a>	Download System	01/03/2007 09:49 AM		<a href="#">Delete</a>
<input type="checkbox"/>	14. <a href="#">Upload complete</a>	Upload System	12/20/2006 10:56 AM		<a href="#">Delete</a>







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## Messages

Delete Selected

Select: [All](#), [None](#)

	Subject	From	Date	
<input type="checkbox"/>	1. <a href="#">File ready for download</a>	Download System	09/07/2007 06:24 PM	<a href="#">Delete</a>
<input type="checkbox"/>	2. <a href="#">Data deleted</a>	Delete system	06/20/2007 11:00 AM	<a href="#">Delete</a>
<input type="checkbox"/>	3. <a href="#">File ready for download</a>	Download System	06/20/2007 10:49 AM	<a href="#">Delete</a>
<input type="checkbox"/>	4. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:15 AM	<a href="#">Delete</a>
<input type="checkbox"/>	5. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:10 AM	<a href="#">Delete</a>
<input type="checkbox"/>	6. <a href="#">Upload complete</a>	Upload System	06/20/2007 10:07 AM	<a href="#">Delete</a>
<input type="checkbox"/>	7. <a href="#">Upload complete</a>	Upload System	06/19/2007 01:03 PM	<a href="#">Delete</a>
<input type="checkbox"/>	8. <a href="#">Upload complete</a>	Upload System	06/18/2007 05:15 PM	<a href="#">Delete</a>
<input type="checkbox"/>	9. <a href="#">Upload complete</a>	Upload System	05/04/2007 11:02 AM	<a href="#">Delete</a>
<input type="checkbox"/>	10. <a href="#">Data deleted</a>	Delete system	05/04/2007 10:52 AM	<a href="#">Delete</a>
<input type="checkbox"/>	11. <a href="#">Upload complete</a>	Upload System	05/04/2007 10:42 AM	<a href="#">Delete</a>
<input type="checkbox"/>	12. <a href="#">Upload complete</a>	Upload System	05/01/2007 03:24 PM	<a href="#">Delete</a>
<input type="checkbox"/>	13. <a href="#">File ready for download</a>	Download System	01/03/2007 09:49 AM	<a href="#">Delete</a>
<input type="checkbox"/>	14. <a href="#">Upload complete</a>	Upload System	12/20/2006 10:56 AM	<a href="#">Delete</a>
<input type="checkbox"/>	15. <a href="#">Data deleted</a>	Delete system	09/19/2006 12:32 PM	<a href="#">Delete</a>
<input type="checkbox"/>	16. <a href="#">File ready for download</a>	Download System	09/18/2006 02:37 PM	<a href="#">Delete</a>

Delete Selected

Select: [All](#), [None](#)





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## Manage Users

[Create New User](#)

[All Users and Permissions Printout](#)

	Username	Full Name	Organization	Actions
1.	abartos	Andy Bartos	GIS Workshop	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
2.	andyrut	Andy Rutledge	GIS Workshop	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
3.	Demo	Demonstration	None	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
4.	geocomm	Test User	GeoComm	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
5.	Izak	Luke Zakrzewski	GIS Workshop	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
6.	mHUDSON	Matt Hudson	GIS Workshop	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
7.	mJOLLEY	Mike Jolley	GIS Workshop	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>
8.	tfrost	Tyler Frost	NE PSC	<a href="#">Edit Profile</a> <a href="#">Edit Permissions</a> <a href="#">Delete</a>

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## Create User

Add new user's details here:

**Username:**

**Password:**

**Verify Password:**

**Full Name:**

**Organization:**

**E-Mail:**

☐ Is Super-User

**NOTE:** Users marked as a super-user have complete administrative permissions. This includes modifying users, layers, and uploading/downloading data for every layer and county. Use this setting carefully.

[« Back to Manage Users](#)

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## Edit User

Change user's details here:

**Username:** mjolley

**Password:**

**Verify Password:**

(Leave the password boxes blank if you do not wish to change the user's password.)

**Full Name:** Mike Jolley

**Organization:** GIS Workshop

**E-Mail:** mjolley@gisworkshop.com

☐ Is Super-User

**NOTE:** Users marked as a super-user have complete administrative permissions. This includes modifying users, layers, and uploading/downloading data for every layer and county. Use this setting carefully.

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---

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## User Permissions

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For user *mjolley*

**Add New Permission:**

Counties	Layers	Permissions
<div>Adams Antelope Arthur Banner Blaine Boone Box Butte Boyd Brown</div> <div><input type="checkbox"/> All Counties <a href="#">Use County Picker</a></div>	<div>Streets Cell Towers Emergency Service Nur</div> <div><input type="checkbox"/> All Layers</div>	<div><input type="checkbox"/> Upload <input type="checkbox"/> Download <input type="checkbox"/> View</div>

Add Permission

**Edit Existing Permissions:**

	Counties	Layers	Permissions	Action
1.	<div>Adams Antelope Arthur Banner Blaine Boone Box Butte Boyd Brown</div> <div><input checked="" type="checkbox"/> All Counties <a href="#">Use County Picker</a></div>	<div>Streets Cell Towers Emergency Service Nur</div> <div><input checked="" type="checkbox"/> All Layers</div>	<div><input type="checkbox"/> Upload <input type="checkbox"/> Download <input checked="" type="checkbox"/> View</div>	<a href="#">Delete Permission</a>

Edit Permissions

# Any Questions???

**Thank you for your time  
and attention!!**

# GIS Workshop, Inc.

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*Senior GIS Technician & Trainer*



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**Nebraska Public Service Commission**

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WEB: <http://www.psc.state.ne.us>

*Joan Raffety – Wireless E911 Coordinator*  
**[joan.raffety@psc.ne.gov](mailto:joan.raffety@psc.ne.gov)**

**GIS Workshop, Inc.**

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*Michael R. Jolley – Director of Business  
Development*  
**[mjolley@gisworkshop.com](mailto:mjolley@gisworkshop.com)**

*Claire Brown – Senior GIS Technician & Trainer*  
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